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CENTRAL INTELLIGENCE AGENCY

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SECRET SECURITY INFORMATION

50X1-HUM

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Television Development at NII 160 in Fryazino, NII 380 in Leningrad, and in the Soviet Zone of

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Germany

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PLACE **ACQUIRED**

DATE OF INFO.

> SUPPLEMENT TO REPORT NO.

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From January 1941 to July 1943 in Berlin, Zehlendorf, Goertz Allee. in the H F Laboratory of Fernseh GmbH

There were about 250 men employed at the plant, which was engaged in producing senders and receivers (wave length of about 70 cm) for the Reichs Post. In July 1943 the plant was moved to Tannwald, Czechoslovakia. Sometime before the end of the war, Dr. Rols Mueller took half of everything in the plant and moved to Taufkirken in Bayern. This was to prevent total distruction in case of bombing. The group that remained at Tannwald was under the direction of Dr. Schubert. He was later carried away by the Soviets and has not been heard of since.

The Czechs seized the plant in May 1945 but at the end of the war, July 1945, the Soviets took over everything at Tannwald. All men between 18 and 65 years of age were ordered away. Everything in the plant was well packed, crated, and shipped to Moscow.

The machinery had been badly handled in transport and much of it was in poor condition upon arrival. 50X1-HUM

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owever, with the help of 30 Russians, of which 3 were engineed 5 technicians, set up a plant in an old	50X1-HUN
estitute consisting of 12 or 15 empty rooms. The plant produce	eđ
nd tested all parts for the Moscow TV sender, and was known	3
rector was Federay, an engineer but by no means an expert,	•
no got his job through family connections.	
_	50V4 LILIN
	50X1-HUN
did the theoretical and design work	
	50X1-HUN
up to 20 technically trained Russians in	<u>n</u> ,
ne plant. These had little initiative and imagination.	ctions.
difficulty with them was "turn over"as soon as	a 50X1-HUN
an became fairly well acquainted with his job he would be ransferred to some other plant. division worked	on:
) graduancy maters (Range 0.1 to 20 maga H. in three stage	s) , 50X1-HUN
) grequency curve tracer i e.cathode ray trace on a rivore	ilt 50X1-HUN
ent screen, 3) amplifiers for the Moscow TV sender. bu	
at somewhere else had a monthly	50X1-HUN
lan but no quota TV reception from Moscow - airline 50 km as reasonably good. made no experiments with color TV.	50X1-HUN
here was no lack of materials. brought practically eve	 50X1-HUN
hing from Tannwald. astonished at the	
umber of instruments, switches, tubes, and automatic machine USSR which had come from The Russians were	nes in
ble to copy these with good success. The use of parts con	50X1-HUN
aining Russian iron usually resulted in poor <u>and uncertain</u>	
esults. Russian iron gradually improved and it was satisfactory for use in radio parts.	
	50X1-HUN
he plant	the
irector of the plant.	3071-1101
rices were extremely high and there was little to be bough	50X1-HUN
he Russians stole everything from trinkets to TV picture $_$	
ubes. These could then be bought on the market. A new regulation	
ent into effect late in 1946 pay as a development ngineer was increased from 880 to 2500 Rubles per month.	50X1-HUN
n the spring of 1948. Germans from the SKB-Moscow	50X1-HUN
ere sent to Leningrad, where a new TV laboratory and sender as to be built. It was said that secret work (50X1-HUN
agnetron research) was to be started at the Moscow plant. iving conditions were much better in Leningrad.	
A German school was provided	for 50X1-HUN
he German children. (Russian history was always taught, ho	W
ver.) The common Russian people were appreciative and kin	
	50X1-HUM

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50X1-HUM ...:

50X1-HUM the TV development group at There were about 20 engineers Adlershof Barracks, Berlin. and technicians in the development laboratory and the same number in the production division. The buildings were new and well equipped. Augustine, a derman, was in charge of Kurt Heiss was the general supervisor of all senders in DDR. He was a Russian who traveled back and forth to Moscow fre-50X1-HUM Herman Stier was the general director of the laboratory. 50X1-HUM The production group was under the direction of Werner Hoffman. Hasz was in charge of high vacuum development work. This work with broadcast development is considered very secret and has been moved to a new building near Ostkreuz Bahnhof. Maurer is the iconoscope specialist. Other sections of the development laboratory were: Control and measuring instruments, including power supply and wiring 50X1-HUM Low frequency receivers 50X1-HUM (c) High frequency research Director Sohr (d) Synchronization (e) Camera development and testing Director Werner Hoffman (f) Optics Director Linder Construction (g) Amplifiers (2 men) (h) (i) Signal (2 men) A total of about 50 men worked in the experimental laboratory. 50X1-HUM

12.

The laboratory was called Zentral Laboratorium der Generalintendanz , Berlincalled Zentral Laporatoria.

Adlersdorf, Rudower Chaussee 116

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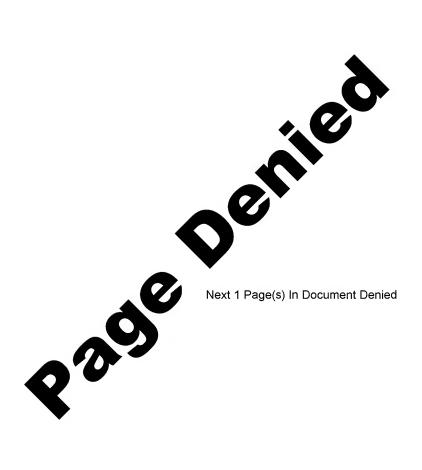
There seems adequate for all work. The equipment was adequate and dogs. There seemed 50X1-HUM to be ample funds for all work. The equipment was adequate and good. The laboratory was guarded by a fence and dogs.

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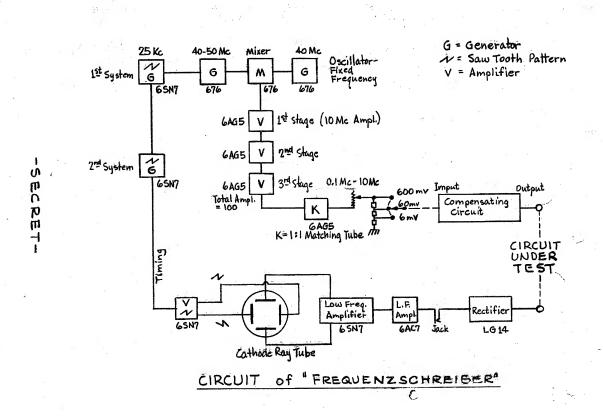
Women served as guards and admission was by pass only. sender at Adlershof beamed its programs by short wave (less than 1 meter) to the city hall (Stadthaus) where it was broadcast. One sideband was used. Pictures were broadcast on 99.9 mega Hz and tone on 106.4 mega Hz. The band width was 6.5 mega Hz. For scanning, 625 lines were used. Output at the city hall was 150 watts. Poor tubes accounted for the low power. The oscillator had been built by Zwaenitz, a Soviet factory in the Erzgebirge. It had to be rebuilt before it would operate satisfactorily. This same company also supplied parts for the Leningrad sender. Receivers were built in Radeberg by Sachsenwerke. The cabinets are large (roughly 1 m x .8 m x .5 m); the picture screen is about 18 x 18 cm. Tubes are still poor and not completely reliable.

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ENCLOSURE (B): Circuit of "Frequenzschreiber"



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